

Comparisons of Job Characteristics

Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)

Associated Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)

Associated Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	21.1	20.8	0 Current knowledge level may be sufficient
Transportation	4.6	9.6	6.2	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Repairing	3.4	11.2	12.7	> Skill level is likely sufficient
Troubleshooting	4.5	11.0	11.4	0 Current skill level may be sufficient
Equipment Maintenance	3.5	10.2	11.6	> Skill level is likely sufficient
Operation Monitoring	6.6	10.0	10.9	0 Current skill level may be sufficient
Operation and Control	5.4	9.7	11.1	> Skill level is likely sufficient
Quality Control Analysis	5.9	9.4	10.4	> Skill level is likely sufficient
Equipment Selection	3.3	7.5	9.4	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)
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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Control Precision	6.6	12.3	13.5	0	Current ability level may be sufficient
Manual Dexterity	6.5	11.9	12.4	0	Current ability level may be sufficient
Multilimb Coordination	6.0	11.9	12.0	0	Current ability level may be sufficient
Finger Dexterity	7.6	11.8	12.6	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	11.6	12.2	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	11.4	11.8	0	Current ability level may be sufficient
Extent Flexibility	4.8	10.3	14.4	>>	Current ability level is likely more than sufficient
Speed of Limb Movement	3.2	6.9	5.1	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.4	5.2	<	Some improvement in abilities may be required
Sound Localization	2.2	5.9	5.9	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 100

Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)
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Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Align or adjust clearances of vehicle body parts or components	78
Align vehicle frame	87
Assemble, dismantle, or reassemble equipment or machinery	70
Conduct tests to locate mechanical system malfunction	71
Determine installation, service, or repair needed	58
Diagnose malfunctioning vehicle systems	85
Diagnose mechanical problems in machinery or equipment	65
Estimate time or cost for installation, repair, or construction projects	54
Examine vehicle to detect malfunctions, damage, or maintenance needed	75
Fabricate, assemble, or disassemble manufactured products by hand	11
Follow safe waste disposal procedures	50
Follow vehicle repair procedures	85
Identify base metals for welding	68
Inspect machinery or equipment to determine adjustments or repairs needed	42
Lubricate machinery, equipment, or parts	59
Maintain or repair cargo or passenger vehicle	69
Maintain repair records	65
Maintain welding machines or equipment	70

Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Operate lathes	76
Operate vehicle engine electrical system test equipment	84
Overhaul vehicle major operating units, such as engines or transmissions	84
Perform safety inspections in industrial, manufacturing or repair setting	32
Read schematics	34
Read technical drawings	7
Read vehicle manufacturer's specifications	76
Read work order, instructions, formulas, or processing charts	9
Repair commercial transportation equipment	85
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Repair or replace malfunctioning or worn mechanical components	62
Repair vehicle transmissions	99
Service vehicle with water, fuel, or oil	73
Set up and operate variety of machine tools	62
Solder vehicle components	92
Test mechanical products or equipment	56
Test operate vehicles before or after repair	85
Test vehicle computer processors to detect malfunctions	99
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use combination welding procedures	68
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use engine diagnostic equipment	82
Use hand or power tools	2
Use knowledge of metric system	39
Use knowledge of welding filler rod types	75
Use lifting equipment in vehicle repair setting	87
Use machine tools in installation, maintenance, or repair	72
Use oral or written communication techniques	1
Use pneumatic tools	66
Use precision measuring devices in mechanical repair work	61
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52
Weld together metal parts, components, or structures	54
Write vehicle damage repair estimates	89

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

**Similarity of Focus
Occupation to Associated
Occupation: 93**

Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)
Associated Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)

Tools and Technologies	Exclusivity
Batteries and cells and accessories	43
Braking systems and components	70
Cleaning equipment	11
Computer data input devices	2
Computers	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Face and head protection	7
Fastener setting tools	12
Forming tools	2
Hearing protectors	12
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Mechanical instruments	14
Paint applicators and painting accessories	15
Personal communication devices	2
Pneumatic tools	8
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Pumps	9
Rough and finishing tools	5
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Tool attachments and accessories	12
Transportation related equipment and instruments	29
Vehicle servicing equipment	43
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.